

M.S. IN GEOSCIENCE

College of the Sciences and Mathematics

Curriculum

Core Courses

| | | |
|---------|--------------------------------------------|---|
| ESS 523 | Field Geology of Southeastern Pennsylvania | 3 |
| ESS 536 | Environmental Geology | 3 |
| ESS 547 | Earth and Space Science Seminar | 1 |
| ESS 596 | Earth Systems Science | 3 |

Courses for Precollege Teachers

| | | |
|---------------------------------------------------------------------------------------------------------------------|----------------------------|----|
| ESS 530 | Principles of Oceanography | 3 |
| ESS 570 | Principles of Meteorology | 3 |
| Select 20 semester hours of electives approved by their committee, at least 11 of which must be ESS or SCE courses. | | 20 |

Courses for Professional Geologists

| | | |
|---------------------------------------------------------------------------------------------------------------------|--------------|----|
| ESS 521 | Geometrics | 3 |
| ESS 539 | Hydrogeology | 3 |
| Select 20 semester hours of electives approved by their committee, at least 11 of which must be ESS or SCE courses. | | 20 |

Total Credits Required 36

All students complete a project submitted as part of the degree candidacy application (after completing nine credits towards degree), and a final written project that is presented at the geoscience seminar.

Sample Course Plan

To track their individual degree progress, students are advised to access their Degree Progress Report (DPR) via my WCU and consult their Graduate Coordinator. For more information, visit wcupa.edu/DegreeProgressReport.

The following is a suggested course sequence for this program; course offerings and availability are not guaranteed. Students should consult their academic advisor with any questions.

Starting: Fall Semester

| Course | Title | Credits |
|------------------------------|--------------------------------------------|---------|
| Year One | | |
| Semester One | | |
| ESS 521 | Geometrics | 3 |
| ESS 547 | Earth and Space Science Seminar | 1 |
| Select one of the following: | | 3 |
| ESS 570 | Principles of Meteorology | |
| ESS 5XX Elective | | |
| Credits | | 7 |
| Semester Two | | |
| ESS 5XX Elective | | 3 |
| Select one of the following: | | 3 |
| ESS 530 | Principles of Oceanography | |
| ESS 536 | Environmental Geology | |
| ESS 5XX Elective | | |
| Credits | | 6 |
| Summer Session I | | |
| ESS 523 | Field Geology of Southeastern Pennsylvania | 3 |
| ESS 596 | Earth Systems Science | 3 |
| Credits | | 6 |
| Year Two | | |
| Semester Three | | |
| ESS 5XX Elective | | 3 |

| | | |
|--------------------------------------------|----------------------------|-------|
| ESS 5XX Elective | | 3 |
| Select one of the following: | | 3 |
| ESS 570 | Principles of Meteorology | |
| ESS 5XX Elective | | |
| Credits | | 9 |
| Semester Four | | |
| ESS 5XX Elective | | 2-3 |
| Select one of the following: | | 3 |
| ESS 530 | Principles of Oceanography | |
| ESS 536 | Environmental Geology | |
| ESS 5XX Elective | | |
| Present Final Project by first week of May | | |
| Credits | | 5-6 |
| Total Credits | | 33-34 |

Starting: Spring Semester

| Course | Title | Credits |
|------------------------------|--------------------------------------------|---------|
| Year One | | |
| Semester One | | |
| ESS 5xx elective | | 3 |
| Select one of the following: | | 3 |
| ESS 530 | Principles of Oceanography | |
| ESS 536 | Environmental Geology | |
| ESS 5xx elective | | |
| Credits | | 6 |
| Semester Two | | |
| ESS 521 | Geometrics | 3 |
| ESS 547 | Earth and Space Science Seminar | 1 |
| Select one of the following: | | 3 |
| ESS 570 | Principles of Meteorology | |
| ESS 5xx elective | | |
| Credits | | 7 |
| Summer Session I | | |
| ESS 523 | Field Geology of Southeastern Pennsylvania | 3 |
| Credits | | 3 |
| Year Two | | |
| Semester Three | | |
| ESS 5XX Elective | | 3 |
| Select one of the following: | | 3 |
| ESS 530 | Principles of Oceanography | |
| ESS 536 | Environmental Geology | |
| ESS 5XX Elective | | |
| Credits | | 6 |
| Semester Four | | |
| ESS 5xx elective | | 2-3 |
| Select one of the following: | | 3 |
| ESS 570 | Principles of Meteorology | |
| ESS 5xx elective | | |
| Credits | | 5-6 |
| Summer | | |
| ESS 596 | Earth Systems Science | 3 |
| Credits | | 3 |
| Total Credits | | 30-31 |

ESS 591 can fulfill the 2-credit requirement.

ESS 502, ESS 505, ESS 520, ESS 539, and ESS 543 are recommended courses if planning on taking the Professional Geologist (PG) exam.